

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**LISTING OF CLAIMS:**

Claim 1 (currently amended): A double-pipe heat exchanger comprising an inner pipe and an outer pipe, wherein said outer pipe is dented from its outside toward its inside, thereby forming a plurality of projections on the inner side of said outer pipe,

wherein a refrigerant passage is formed in said inner pipe, and a water passage is formed between said inner pipe and said outer pipe,

wherein the refrigerant and water flow in opposite directions from each other,

wherein the number of said projections disposed on an exit side of the water is smaller than the number of said projections disposed on an entrance side of the water.

Claim 2 (currently amended): The double-pipe heat exchanger according to ~~claim 1~~ any one of claims 1, 12 and 13, wherein each of said projection is formed into projections have one of a substantially conical shape, a substantially truncated shape, a substantially spherical surface shape, a substantially cylindrical shape, or a substantially elliptic cylindrical shape.

Claim 3 (currently amended) The double-pipe heat exchanger according to ~~claim 1~~ any one of claims 1, 12 and 13, wherein the plurality of projections are disposed in a staggered configuration.

Claim 4 (currently amended): The double-pipe heat exchanger according to ~~claim 1~~ any one of claims 1, 12 and 13, wherein the plurality of projections are disposed helically.

Claim 5 (canceled).

Claim 6 (currently amended): The double-pipe heat exchanger according to ~~claim 5~~ any one of claims 1, 12 and 13, wherein said inner pipe is a leakage detecting pipe.

Claim 7 (currently amended): The double-pipe heat exchanger according to ~~claim 5~~ any one of claims 1, 12 and 13, wherein carbon dioxide is used as the refrigerant.

Claims 8-11 (canceled).

Claim 12 (new): A double-pipe heat exchanger comprising an inner pipe and an outer pipe, wherein said outer pipe is dented from its outside toward its inside, thereby forming a plurality of projections on the inner side of said outer pipe,

wherein a refrigerant passage is formed in said inner pipe, and a water passage is formed between said inner pipe and said outer pipe,

wherein the refrigerant and water flow in opposite directions from each other,

wherein the depth of the projections disposed on an exit side of the water is shallower than the depth of the projections disposed on an entrance side of the water.

Claim 13 (new): A double-pipe heat exchanger comprising an inner pipe and an outer pipe, wherein said outer pipe is dented from its outside toward its inside, thereby forming a plurality of projections on the inner side of said outer pipe,

wherein a refrigerant passage is formed in said inner pipe, and a water passage is formed between said inner pipe and said outer pipe,

wherein the refrigerant and water flow in opposite directions from each other,

wherein said projections are not disposed on an exit side of the water.